

## Bacterial infections

|                      | <b>Impetigo Contagiosum</b>                                                                                                                                                                                                                 | <b>Folliculitis = impetigo of Bockhart</b>                               | <b>Sycosis barbea</b>                                          | <b>Furuncle = Boil</b>                                                                                     | <b>Carbuncle</b>                                                                                            | <b>Erysipelas</b>                                                                         | <b>Cellulitis</b>                                                                                                            | <b>Erythrasma</b>                                                                                                                                                                                                |
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| <b>Etiology</b>      | Superficial infection of the Skin by <b>Streptococci and staphylococci</b> + poor hygiene & moisture or <b>insect bites , scabies or pediculosis capitis infestation</b>                                                                    | infection of <b>upper</b> part of hair follicle by Staphylococcus aureus | folliculitis of the <b>beard area</b> by Staphylococcus aureus | Deep infection in <b>Lower</b> part of hair follicle with <b>central necrosis</b> by Staphylococcus aureus | Multiple deep <b>boils</b> that open on the surface by multiple fistulae by Staphylococcus aureus, Diabetes | Suppurative inflammation of <b>upper</b> dermis by <b>Beta – hemolytic streptococci.)</b> | Suppurative inflammation of <b>Lower dermis &amp; SC tissue</b> by <b>Staphylococcus aureus &amp; Streptococcus pyogenes</b> | Superficial infection of <b>intertriginous areas</b> <b>Corynebacterium minutissimum</b> Diabetes                                                                                                                |
| <b>C/P</b>           | <b>1- Ordinary :</b> macule → vesicles → Golden yellow Crusts, No fever.<br><b>2- Bullous :</b> new born – staph infection – may be fatal<br><b>3- Circinate :</b> extension of ordinary<br><b>4- Ulcerative :</b> (ecthyma): crust & scars | Follicular <b>pustules</b>                                               | Follicular <b>pustules &amp; papules</b>                       | Follicular Red <b>papules</b>                                                                              |                                                                                                             | <b>Sharp border. Blisters</b>                                                             | <b>Ill-defined</b> border.                                                                                                   | <ul style="list-style-type: none"> <li>○ Dry Scaly reddish brown <b>patches</b> with fine Scales in intertriginous areas</li> <li>○ Wood's light shows coral <b>red</b> fluorescence due to porphyrin</li> </ul> |
| <b>Complications</b> | <b>Post streptococcal glomerulonephritis</b>                                                                                                                                                                                                |                                                                          |                                                                |                                                                                                            |                                                                                                             | <b>Lymphedema</b>                                                                         |                                                                                                                              |                                                                                                                                                                                                                  |
| <b>Treatment</b>     | TTT of PDF<br>Topical antiseptics + topical antibiotics and systemic antibiotic if severe                                                                                                                                                   |                                                                          |                                                                |                                                                                                            | Incision & drainage + systemic AB                                                                           | Erythromycin                                                                              | Aggressive AB                                                                                                                | Topical AB and <b>antifungal</b> although it's a <b>diphtheroid bacteria</b> systemic AB                                                                                                                         |

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## Viral infections

|               | Herpes simplex                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Herpes zoster                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Warts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Molluscum Contagiosum                                                                                                                                                                                                                                                                                                             |
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| Etiology      | HSV I : herpes labialis<br>HSV II : herpes progenitalis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Varicella Zoster virus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Human papilloma virus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Pox virus                                                                                                                                                                                                                                                                                                                         |
| C/P           | <p>IP: 2-5 days</p> <p>1- <b>HSV I :</b></p> <ul style="list-style-type: none"> <li>It causes <b>primary herpetic gingivostomatitis</b>: small superficial <b>vesicles</b> on the oropharynx that <b>rupture</b> leaving painful denuded areas. These are accompanied by fever, swollen gums, <b>lymphadenopathy</b></li> <li><b>Sites of Recurrent attacks :</b> <ul style="list-style-type: none"> <li>Lips ( <b>Herpes Labialis</b> ) : usually <b>bilateral</b> ( may be unilateral ) grouped vesicles, within a few days, vesicles dry up forming crusts and fall off. Lesions heal <b>without</b> a scar</li> <li>Face : ( <b>herpes facialis</b> )</li> </ul> </li> <li><b>Special variants of HSV type I :</b> <ul style="list-style-type: none"> <li><b>Ocular mucosa.</b></li> <li><b>Finger or hand (herpetic whitlow)</b> : painful vesicles</li> </ul> </li> </ul> <p>2- <b>HSV II :</b></p> <ul style="list-style-type: none"> <li><b>vesicles</b> on genitals and ulcers</li> <li>If pregnant → <b>CS</b></li> </ul> | <p>IP: 7-10 days</p> <ul style="list-style-type: none"> <li>❖ <b>Chicken Pox( Varicella)</b>: generalized vesicular eruption</li> <li>❖ <b>Reactivation of infection :</b> <ul style="list-style-type: none"> <li><b>Herpes Zoster</b>: Strictly <b>Unilateral</b> ( not crossing midline, linear, along a dermatome ) groups of vesicles along the distribution of one or more sensory nerves, local LNs may be enlarged, Vesicles usually dry up without rupture. It may leave <b>scars</b>.</li> </ul> </li> <li>❖ <b>Special variants:</b> <ul style="list-style-type: none"> <li><b>Abortive</b> only pain without vesicular eruption.</li> <li><b>Bloody</b></li> <li><b>Gangrenous or Generalized</b></li> <li>Disease is <b>not recurrent</b>; one attack gives <b>permanent solid</b> immunity</li> </ul> </li> <li>❖ <b>Dangerous in :</b> <ul style="list-style-type: none"> <li>Old age, Bilateral</li> <li>Gangrenous, Recurrent</li> </ul> </li> </ul> | <p>IP: 1- 6 Months</p> <p>1- <b>Genital warts</b> : moist foul smelling in MM &amp; skin with a cauliflower appearance</p> <p>3- <b>Common warts</b> : verrucous papules</p> <p>4- <b>Plane warts</b> : flat topped papules</p> <p>5- <b>Planter warts</b> : foot = tender – grow inward</p> <p>6- <b>Filiform warts</b> : pedunculated</p> <p>7- <b>Digitiform warts</b> : finger like</p> <p><b>Oncogenicity :</b><br/><b>cervical cancer</b></p> <p>1- <b>Cauterization</b> : electro, chemical, cryo</p> <p>2- <b>Laser</b></p> <p>3- <b>Podophyllon</b>: for venereal : <b>contraindicated in pregnancy</b> and in large <b>bleeding</b> warts.</p> <p>3- <b>Radiotherapy</b> : <b>resistant planter</b></p> <p>4- <b>Autosuggestion</b></p> | <p>IP: 2- 6 weeks</p> <ul style="list-style-type: none"> <li>Shiny, pearly white Smooth Surface <b>dome</b> shaped <b>Papule with Central umbilication</b></li> <li>Squeezing the lesion → White Cheesy material can be expressed from the central punctum</li> <li>Can be <b>sexually transmitted diseases (STDs)</b></li> </ul> |
| Complications | <ul style="list-style-type: none"> <li>Secondary infection</li> <li>Eye: keratitis and corneal ulcers</li> <li><b>Erythema multiforme (HSV type I)</b></li> <li>CNS: e.g. encephalitis and meningitis,</li> <li><b>Cancer cervix (HSV type II)</b></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li><b>Secondary infection</b></li> <li><b>HZ ophthalmicus</b></li> <li><b>Post-herpetic neuralgia</b></li> <li><b>Cicatricial Alopecia.</b></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                   |
| Treatment     | <ul style="list-style-type: none"> <li>Antiseptic lotions</li> <li>Acyclovir cream 5 times daily 5 days</li> <li>IDU for eye lesions</li> <li><b>Acyclovir tab 200 mg 5 X 5</b></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p>1- <b>Topical</b> : drying AS lotion / Acyclovir cream</p> <p>2- <b>Systemic</b> : Acyclovir 800 mg 5 X 7 , Analgesics</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>Cauterization &amp; laser</li> </ul>                                                                                                                                                                                                                                                       |

## Fungal infections

| Dermatophytes    |                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                     | Yeasts                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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|                  | <b>Tinea capitis</b>                                                                                                                                                                                                                                                                                                                                                     | <b>Tinea circinata</b>                                                                                                                                                                                                                                                                                                                                  | <b>Tinea pedis</b>                                                                                                              | <b>Other types</b>                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Pityriasis versicolor</b>                                                                                                                                                                   | <b>Candidiasis</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Cause</b>     | Trichophyta & microspore                                                                                                                                                                                                                                                                                                                                                 | Trichophyta & microspore                                                                                                                                                                                                                                                                                                                                | Trichophyta & epidermophyta                                                                                                     | 1- <b>Tinea cruris</b> : Trichophyta & epidermophyta, scrotum not involved<br>2- <b>Tinea axillaris</b><br>3- <b>Tinea barbae</b> : one sided on the neck, pustules like kerion<br>4- <b>Tinea mannum</b> : in palm , unilaterally , vesicles & pustules<br>5- <b>Tinea Unguium</b> : onychomycosis : Trichophyta & epidermophyta, thickened greenish nails or brittleness leading to <b>onycholysis</b> , unilateral or bilateral. | <b>Malassezia furfur</b> the pathogenic form of <b>pityrrosporum orbiculare</b><br><b>Macule</b> hypo or hyper pigmented with fine branny <b>scales</b> in upper chest arms – In <b>summer</b> | <b>Candida albicans</b><br><b>1- Mucosalcandidiasis</b> : oral thrush – vulvo vaginitis - balanitis<br><b>2- Cutaneous candidiasis:</b> <b>Vesicles</b> that coalesce and rupture giving well defined, red eroded areas with white <b>fringed edge</b> and <b>forerunners (Satellites)</b> .<br><u>a. Intertrigo</u> :<br>i. <b>Groins , axillae and under breasts</b><br>ii. <b>Erosio – interdigitalis blastomycetica</b> ; the Ring and Middle fingers<br>iii. <b>Angular cheilitis ( perleche )</b><br>iv. <b>Napkin dermatitis:</b> Depth of flexures are usually <b>affected</b><br><u>b. Paronychia &amp; Onychia</u> : nail fold tender – nail corrugated |
| <b>C/P</b>       | 1- <b>Scaly type</b> :child – bald patch with fine <b>grayish white Scales</b><br>2- <b>Black dot</b> : hair breaks leave dots<br>3- <b>Kerion</b> : also adult with boggy swelling & pustules → cicatricial alopecia<br>4- <b>Favus</b> : diffuse loss of hair with <b>mousy</b> odour yellow cup shaped sulfur crusts ( <b>scutula</b> ) → <b>cicatricail alopecia</b> | <b>Well defined annular active red patches with healing center &amp; vesicular scaly edge.</b> – <b>itching</b> is common on <b>Face or arms</b>                                                                                                                                                                                                        | Sodden white macerated skin with bad dour <b>Bilateral</b> , particularly the <b>Fourth and Fifth in Feet.</b>                  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Diagnosis</b> | 1- <b>Wood's</b> : green<br>2- <b>microscopic examination</b><br>3- Culture on <b>Sabouraud's agar</b>                                                                                                                                                                                                                                                                   | <b>DD: Herald patch of pityriasis rosea</b>                                                                                                                                                                                                                                                                                                             | <b>DD of tinea Cruris &amp; tinea axillaris:</b> <b>Candidiasis , flexural psoriasis , seborrheic dermatitis and erythrasma</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                     | Wood's light gives <b>yellow</b><br><b>Parker ink stain</b> : Spaghetti & meatballs.                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Treatment</b> | <ul style="list-style-type: none"> <li><b>Topical</b> alone is useless : ketoconazole shampoo +</li> <li>systemic <b>Griseofulvin</b> tab for 2 months</li> </ul>                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Avoid PDF</li> <li>For localized cases : topical antifungal twice daily e.g. <b>Tincture iodine 1 %</b></li> <li>For extensive or resistant cases , <b>GAA</b>; <b>Griseofulvin</b> for 3 – 6 weeks , <b>Azole</b> derivatives e.g. ketoconazole, itraconazole or <b>Allylamines</b> e.g. terbinafine</li> </ul> |                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>1-Systemic</b> : ketoconazole 200mg X 10<br><b>2-Topical</b> : Na hyposulphide – imidazole – zinc pyrithione – white field – tincture iodine                                                | <b>1- Topical</b> : castellani paint – nystatin cream<br><b>2- Systemic</b> : mycostatin oral drops – Azoles – amphotericin B in sever                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



## Scaly Erythematous Eruptions

|                       | Psoriasis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Lichen planus                                                                                                                                                                                                                                                           | Pityriasis rosea                                                                                                                                                                                                                                                                 | Discoid Lupus erythematosus                                                                                                                                                                                                                                                                                                                      |
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| <b>Etiology</b>       | <ul style="list-style-type: none"> <li>- Lack of UV rays</li> <li>- <b>Hemolytic streptococcal infection- Hypocalcemia</b></li> <li>- Pregnancy , drugs</li> <li>- Psychogenic , Trauma; <b>Koebner's Phenomenon</b></li> </ul>                                                                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>○ Psychological Stress;</li> <li>○ hepatitis C</li> <li>○ Sun rays</li> <li>○ Antimalarial , gold</li> <li>○ <b>Koebner's Phenomenon</b></li> </ul>                                                                              | <b>Exanthematous</b> reaction for upper respiratory <b>viral infection (human herpes virus 6-7 )</b>                                                                                                                                                                             | Chronic scaly erythematous eruption in skin                                                                                                                                                                                                                                                                                                      |
| <b>C/P</b>            | <ul style="list-style-type: none"> <li>○ <b>Non-infectious</b></li> <li>○ well-defined erythematous <b>PAPULE</b> covered by Shiny Silvery dry <b>loosely</b> attached Scales.</li> <li>○ Papules coalesce to give <b>Plaques</b>.</li> <li>○ Removal of the scales will lead to the appearance of bleeding spots corresponding to the tips of dermal Papillae ( <b>Auspitz sign</b> )</li> </ul>                                                                                                                                          | <ul style="list-style-type: none"> <li>○ <b>Non- infective</b></li> <li>○ Well-defined , Planar (<b>Flat topped</b>), Polyangular , Purple (violaceous) and Pruritic (itchy) <b>Papule</b> with Shiny surface and <b>adherent</b> Scales.</li> </ul>                    | <b>Non-infectious</b><br>Scaly <b>Herald</b> patch ( outer erythematous zone – intermediate scaly one – healing center, inner clear zone ) parallel to rib<br><b>2ry eruption</b> give <b>Christmas tree</b> appearance & jacket with short sleeves in <b>trunk and proximal</b> | <ul style="list-style-type: none"> <li>○ <b>DLE : erythematous PLAQUES</b> covered with <b>adherent scales</b>; lying underneath are <b>dilated pilosebaceous orifices ( stippling sign )</b></li> <li>○ Borders of plaque show <b>telangiectasia</b> .</li> <li>○ Ends by thin atrophic scar → <b>permanent cicatricial alopecia</b></li> </ul> |
| <b>Clinical types</b> | <p><b>1- Psoriasis vulgaris</b> most common type :</p> <p>a. <b>Skin psoriasis</b>: Annular, Punctate, Circinate, Discoid, Linear or Guttate</p> <p>b. <b>Scalp psoriasis</b> : Erythematous plaques and scales</p> <p>c. <b>Nail psoriasis</b> : bilateral pitting hyperkeratotic nail</p> <p>d. <b>Flexural type</b> : scaling is absent</p> <p><b>2- Erythrodermic</b> : more than <b>90 %</b> of the body surface area.</p> <p><b>3- Pustular</b> : sterile pustules</p> <p><b>4- Arthropathic</b> : distal interphalangeal joints</p> | <p>1- <b>Ordinary LP</b></p> <p>2- <b>Actinic LP</b> : in sun exposed area in summer</p> <p>3- <b>LP of the scalp</b> : cicatricial alopecia</p> <p>4- <b>Mucosal</b> : reticulate network – ulcerative lesion – precancerous, resistant to treatment</p>               | <p>1- <b>Ordinary type</b></p> <p>2- <b>Inverted type</b> : occur distal</p> <p>3- <b>Abortive type</b> : only herald</p> <p>4- <b>Papular type</b> : more elevated</p> <p>5- <b>Flexural type</b> : flexures</p>                                                                | <b>Skin manifestation of SLE :</b><br><b>Discoid lesions , Alopecia</b> , diffuse and <b>non-cicatricial Purpura , vasculitis and ulcerations , urticaria , erythema multiform Raynaud's phenomenon Malar Rash</b> ; erythematous , <b>non-scarring patches</b> on light exposed areas                                                           |
| <b>T T</b>            | <ul style="list-style-type: none"> <li>• <b>Local therapy : for mild &amp; moderate cases:</b></li> <li>○ <b>Anthralin ( dithranol) 0.1 – 0.5 %</b>, phototherapy : corticosteroids, calcipotriol, coal tar 2-5 %, dye laser, salicylic acid 5 %</li> <li>• <b>Systemic therapy</b> : for extensive psoriasis vulgaris, pustular , erythrodermic or arthropathic psoriasis</li> <li>○ Acitretin, phototherapy, corticosteroids, cyclosporine, methotrexate .</li> </ul>                                                                    | <p>1- <b>Avoid sun exposure</b></p> <p><b>Topical sunscreens</b></p> <p>2- <b>Antihistaminics &amp; sedative</b></p> <p>3- <b>Local: Steroids &amp; salicylic Acid ointment</b></p> <p>4-<b>Systemic: Acitretin , Steroids –cyclosporine chloroquine 200mg /day</b></p> | <p>1- PT reassurance</p> <p>2- Avoid hot baths</p> <p>3- <b>Calamine lotion</b></p> <p>4- <b>Oral antihistaminics , topical corticosteroids and UVB</b></p>                                                                                                                      | <p>1-<b>Sunscreens</b></p> <p>2- <b>Systemic photoprotectives ( chloroquine )</b></p> <p>3- <b>Corticosteroids</b> ( local – systemic – intralesional )</p>                                                                                                                                                                                      |



## Allergic dermatoses

| Eczema                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Urticaria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Erythema Multiforme                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Drug eruptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <ul style="list-style-type: none"> <li>May be <b>genetic</b> in types as <b>atopic &amp; allergic</b> contact dermatitis</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li><b>Type I hypersensitivity</b> reaction: <b>IgE</b> antibodies, mast cell sensitization and degranulation</li> <li>1- <b>Exogenous</b> : <b>Ingestants</b>, foods as fish-chocolate / <b>Injectants</b> : drugs as penicillin</li> <li><b>Inhalants</b> as pollens</li> <li>2- <b>Endogenous</b> : infection – parasites – SLE – lymphoma – pregnancy</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                   | <p>It is <b>hypersensitivity syndrome</b> leading to <b>epidermal cell death</b>.</p> <ol style="list-style-type: none"> <li>Genetic factors</li> <li>Infections : HSV</li> <li>DRUGS : NSAIDs</li> <li>Autoimmune : SLE</li> <li>Malignancy : lymphoma</li> </ol>                                                                                                                                                                                                           | <p>Drug's Adverse effects on the skin may manifest in several form which may mimic any skin disease. It differs by having an <b>Acute onset</b>, <b>Atypical distribution</b>, more inflammation and subsidence After stoppage of the <b>causative drug</b>.</p>                                                                                                                                                                                                                                                                          |
| <p>1- <b>Contact</b> dermatitis :</p> <ol style="list-style-type: none"> <li>Irritant dermatitis : any individual</li> <li>Allergic contact dermatitis : type <b>IV</b> in genetic susceptible</li> </ol> <p>2- <b>Discoid</b> eczema : <b>well</b> defined</p> <p>3- <b>Stasis</b> eczema : venous insufficiency → edema oozing vesiculation, itching</p> <p>4- <b>Atopic</b> eczema : genetic with Family history</p> <ol style="list-style-type: none"> <li><b>Infantile</b> : on cheeks &amp; hands</li> <li><b>Childhood</b> : on <b>flexures</b>, antecubital and popliteal fossae</li> <li><b>Adult</b> : <b>hyperpigmentation &amp; lichenification</b></li> </ol> <p>5- <b>Seborrheic</b> eczema : by <b>Malassezia furur</b></p> <ol style="list-style-type: none"> <li><b>Infantile type</b> : <b>Greasy yellowish scales on scalp</b> caused by <b>transfer of androgen</b> hormone from mother to infant</li> <li><b>Adult</b> : <b>genetic</b> susceptibility due to effect of <b>androgen</b> on sebaceous glands</li> </ol> | <ol style="list-style-type: none"> <li><b>Ordinary</b> urticaria</li> <li><b>Angioedema</b> : <b>VD, soft tissue, larynx</b>, suffocations</li> <li><b>Factitious</b> : very mild –follow trauma</li> <li><b>Cholinergic</b> : <b>acetylcholine</b>, due to <b>muscular effort, nervous excitation or overheating</b>, itchy sensation after sweating with wheals on scalp –neck upper chest , seasonal, self limiting, , <b>Small wheals</b> may be observed corresponding to <b>Sweat glands</b>.</li> <li><b>Physical</b> : either solar –pressure – cold – heat</li> <li><b>Popular</b> : due to insect bite in infants &amp; children / wheal then papule over it</li> </ol> <p><b>type I :wheal</b> formation</p> <p><b>type IV : lymphocytic cell infiltration</b> and <b>papule</b> formation</p> | <ol style="list-style-type: none"> <li><b>EM minor</b> : only limited to <b>skin</b> – no or mild mucosal involvement – no systemic involvement</li> <li><b>EM major</b> : extensive <b>mucosal and systemic</b> involvement → death</li> </ol> <p>Primary lesion : Skin lesion : <b>erythematous, annular ring with central vesicle or hyperpigmented</b> known as <b>target ( iris) lesion</b></p> <p>Mucosal lesion : <b>painful hemorrhagic bullae and erosions</b>.</p> | <ol style="list-style-type: none"> <li><b>Angioedema &amp; urticaria</b></li> <li><b>Acneform eruptions (steroids)</b></li> <li><b>Photosensitive drug reaction</b></li> <li><b>Erythroderma (exfoliative dermatitis)</b></li> <li><b>Fixed drug eruption</b> : <ul style="list-style-type: none"> <li>With sulfonamides &amp; NSAIDs</li> <li>Fixed to the drug &amp; site</li> <li>Permengnate colored</li> <li><b>Macule or patch</b> → <b>vesicles or bullae</b> → <b>erosion</b></li> <li>Lips and genitalia.</li> </ul> </li> </ol> |
| <ul style="list-style-type: none"> <li><b>Acute eczema</b> : erythema –swelling –vesicles, oozing , crusting</li> <li><b>Chronic eczema</b> : lichenification &amp; excoriations , hyper-or hypopigmentation</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li><b>Wheal</b> : Sudden appearance of <b>whitish or reddish slightly elevated edematous</b> lesions, <b>Evanescent (transient)</b></li> <li><b>More than 3 months</b>, it is called <b>chronic urticaria</b></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li><b>Local</b> : <b>Antibiotics , Antiseptics , Anaesthetics</b></li> </ul>                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <ol style="list-style-type: none"> <li><b>Acute</b> : drying antiseptic lotion &amp; corticosteroid <b>cream</b> with <b>hydrous</b> base which does <b>not</b> irritate the eroded surface– systemic antihistaminics &amp; corticosteroids</li> <li><b>Chronic</b> : local corticosteroids <b>ointments</b> with <b>vaseline</b> base because skin surface is <b>intact</b></li> <li><b>Atopic</b> : topical immunomodulators &amp; UVB</li> <li><b>Seborrheic</b> : Olive oil , steroids, antidandruff shampoo</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <ol style="list-style-type: none"> <li><b>local</b> : cold compresses –calamine lotion – Corticosteroids</li> <li><b>Systemic</b> : oral antihistaminic (AH) , parenteral AH , oral steroids , parenteral steroids , <b>adrenaline</b> SC or IM in <b>angioedema</b> (Never IV, contraindicated in Cardiac patient)</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li><b>Systemic</b> : steroids antihistaminics – antibiotics</li> <li><b>EM Major needs</b> hospitalization and TTT of complications</li> </ul>                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |



## Disorders

|                  | Vitiligo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Alopecia ( Hair Loss )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Acne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Etiology</b>  | <ul style="list-style-type: none"> <li>❖ It is a common, <b>non-infectious</b>, genetically determined disorder characterized by <b>loss of melanocytes</b>.</li> <li>❖ Melanocytes are destroyed and disappear from epidermis due to :               <ol style="list-style-type: none"> <li>1- <b>Autoimmune</b> : <b>Antimelanocytes antibodies</b> precipitated by psychological or mechanical trauma</li> <li>2- <b>Neurogenic</b>: <b>Melanocytotoxic</b> substances from nerve endings</li> <li>3- <b>Chemical</b> : <b>Melanocytotoxic</b> substance ( <b>Phenolic derivatives</b> from rubber gloves</li> <li>4- <b>UV rays</b> .</li> </ol> </li> </ul> | <p><u><b>1- Cicatricial :</b></u></p> <ul style="list-style-type: none"> <li>○ <b>Mechanical trauma</b> – burns , <b>kerion</b> and <b>favus</b> , <b>herpes zoster</b> , <b>lichen planus</b> , <b>basal cell carcinoma</b>, <b>DLE</b></li> </ul> <p><u><b>2- Non cicatricial :</b></u></p> <ol style="list-style-type: none"> <li><b>a. Telogen Effluvium</b>: postpartum – nutritional deficiency , gold, 50 % hair loss with normal resting hair</li> <li><b>b. Anagen Effluvium</b>: cytotoxic – retinoids – mercury , 90 % hair loss with dysplastic changes.</li> <li><b>c. Androgenetic Alopecia (Familial Baldness)</b>: overactivity 5 – reductase</li> <li><b>d. Alopecia areata</b> : genetic factors – immunological actors “ exclamation mark hair ”</li> </ol> <p><b>Types</b> : patchy – marginalis – Ophiasis – totalis – universalis )</p> | <ul style="list-style-type: none"> <li>○ It is chronic inflammatory disorder of the <b>pilosebaceous unit</b>.</li> <li>○ It is one of the <b>most frequent</b> chronic skin diseases and <b>the commonest</b> dermatological disorder in <b>adolescents</b></li> <li>○ <b>Block</b> of follicular opening by KCs – <b>dilatation</b> of the lower part – <b>disruption</b> of the epithelium – <b>discharge</b> into the dermis – <b>inflammation</b> especially with <u><b>propionobacterium acnes</b></u> lead to <b>papule, pustule, nodulocystic lesions</b>.</li> </ul> |
| <b>Types</b>     | <ul style="list-style-type: none"> <li>● <b>Milky white macule or patch</b>:</li> <li>1- <b>Focal</b> vitilgo</li> <li>2- <b>Unilateral</b> vitilgo</li> <li>3- <b>Generalized</b> vitilgo</li> <li>4- <b>Universal</b> vitilgo</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <ol style="list-style-type: none"> <li>1- <b>Mild</b> ; comedones – no papules</li> <li>2- <b>Moderate</b> : comedones – papules – pustules</li> <li>3- <b>Severe</b> : nodules &amp; cysts ( <b>acne conglobata</b> )</li> </ol>                                                                                                                                                                                                                                                                                                                                             |
| <b>DD</b>        | <ol style="list-style-type: none"> <li>1. Pityriasis Alba</li> <li>2. Pityriasis (Tinea) Versicolor</li> <li>3. Post Inflammatory Hypopigmentation e.g. Tuberculoid Leprosy.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p><b>TTT of Androgenetic Alopecia (Familial Baldness):</b></p> <p><u>In males:</u><br/>Inhibitors of 5 – reductase, , minoxidil 2-5 %</p> <p><u>In females :</u><br/>Estrogens, Antiandrogens</p> <p><b>TTT of alopecia areata:</b></p> <p><u>I) Topical Therapy :</u><br/>tincture Iodine 2-4 % and Anthralin</p> <p><u>PUVA therapy, Corticosteroid , minoxidil</u></p> <p><u>II) Systemic Therapy :</u><br/>Sedatives and antidepressants, steroids</p>                                                                                                                                                                                                                                                                                                                                                                                                   | <p><b>1- Topical :</b><br/>Antibiotics,<br/>Retinoids,<br/>Azelaic acid 20 %,<br/>Benzoyl peroxide 2.5 – 10 %.</p> <p><b>2- Systemic :</b><br/>Antibiotics,<br/>Retinoids ,<br/>Dapsone,<br/>Steroids,<br/>Antiandrogens &amp; birth control pills</p>                                                                                                                                                                                                                                                                                                                        |
| <b>Treatment</b> | <ol style="list-style-type: none"> <li>1- <b>Phoyototherapy</b> : PUVA. UVB</li> <li>2- <b>Medical Treatment</b> :               <ol style="list-style-type: none"> <li>A-Immunomodulators</li> <li>B-Steroids</li> <li>C-Antioxidants</li> </ol> </li> <li>3-<b>Surgical Treatment</b> :               <ul style="list-style-type: none"> <li>* Punch grafting, Tissue culture</li> </ul> </li> <li>4- <b>Camouflage</b></li> </ol>                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |



| Papule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Nodule:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | STD                                                                                                                                                                                                     | Vesicle & Bulla:                                                                                                                                                                                                                                                                                                                                                                     |
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| <ul style="list-style-type: none"> <li>• <b>Psoriasis</b></li> <li>• <b>Lichen planus.</b></li> <li>• Sycosis barbea</li> <li>• Furuncle</li> <li>• Common warts ( verruca vulgaris)</li> <li>• <b>Plane warts</b> ( verruca plana ): <b>flat-topped</b></li> <li>• <b>Lichen Planus</b> (LP): Planar (<b>Flat topped</b>)</li> <li>• Childhood Phase of atopic eczema</li> <li>• Papular Urticaria</li> <li>• <b>Molluscum Contagiosum</b> dome shaped Papule with Central umbilication.</li> <li>• <b>Comedo</b>: The primary lesion of <b>acne</b>. There are two types ; <ul style="list-style-type: none"> <li>▪ Closed comedo or White head which is yellowish papule.</li> <li>▪ Open comedo or black head which is a flat or slightly elevated papule with dilated central opening filled with blackened keratin</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• <b>Lepromatous leprosy</b></li> <li>• <b>Severe acne</b></li> <li>• <b>Post scabietic nodule</b></li> </ul> <b>Plaque:</b> <ul style="list-style-type: none"> <li>• <b>Discoïd lupus erythematosus,</b></li> <li>• Scalp psoriasis</li> <li>• Lepromatous leprosy</li> </ul> <b>Pustules</b> <ul style="list-style-type: none"> <li>• Folliculitis = impetigo of Bockhart</li> <li>• Sycosis barbea</li> <li>• Tinea capitis: Kerion</li> <li>• Tinea Barbae</li> <li>• Tinea Mannum</li> </ul> | <ul style="list-style-type: none"> <li>• Herpes Progenitalis</li> <li>• Genital warts ( Condyloma acuminata</li> <li>• Molluscum Contagiosum</li> <li>• Scabies</li> <li>• Phthiriasis pubis</li> </ul> | <ul style="list-style-type: none"> <li>• Bullous Impetigo</li> <li>• <b>Herpes Simplex</b></li> <li>• <b>Herpes Zoster</b></li> <li>• Tinea Mannum</li> <li>• Cutaneous candidiasis: Vesicles that coalesce and rupture giving well defined, red eroded areas with white fringed edge and forerunners (Satellites).</li> <li>• Mucosal involvement in Erythema Multiforme</li> </ul> |
| Macule & patch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• Milky white macule or patch in <b>vitiligo</b></li> <li>• <b>Pityriasis versicolor</b> = tinea versicolor: sharply demarcated macule , hyperpigmented or hypopigmented covered by fine branny scaling.</li> <li>• <b>Tuberculoid leprosy</b> maculoanaesthetic patch with hypopigmented center.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                      |
| Wheal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Burrow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Furrow                                                                                                                                                                                                  | Cancer                                                                                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• The primary lesion of <b>urticaria.</b></li> <li>• Evanescent (transient) Edematous Elevations of the skin of variable sized.</li> <li>• Itching is usually present</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>• The primary lesion of <b>scabies.</b></li> <li>• A linear elevation of epidermis tunneled by female sarcoptes scabiei mite.</li> </ul>                                                                                                                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>• A deroofted burrow caused by scratching of a burrow</li> </ul>                                                                                                 | <ul style="list-style-type: none"> <li>• <b>Cancer cervix</b> :HSV type II, Herpes progenitalis &amp; human papilloma virus genital warts</li> <li>• <b>Squamous cell carcinoma</b> : Mucosal LP = Atrophic</li> </ul>                                                                                                                                                               |
| Crust                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Healing center                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Target (iris) lesion                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• Ordinary impetigo : Golden yellow Crusts</li> <li>• Ulcerative impetigo (ecthyma): thick crusts and heal with scar.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>• <b>Pityriasis Rosea:</b> Herald Patch</li> <li>• <b>Tinea Circinata</b> ( Tinea corporis)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>• <b>Erythema Multiforme ( EM )</b>: erythematous, annular ring with central vesicle or hyperpigmented</li> </ul>                                                |                                                                                                                                                                                                                                                                                                                                                                                      |



| Scale                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                           |                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                         |
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| <ul style="list-style-type: none"> <li>○ Erythrasma: Dry Scaly reddish brown patches with <b>fine</b> Scales in intertriginous areas; axillae, groins, submammary areas.</li> </ul>                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>○ Tinea capitis: Scaly type: Single or multiple bald patches on the Scalp, with <b>fine grayish white</b> Scales</li> </ul>                        | <ul style="list-style-type: none"> <li>○ Tinea Circinata ( Tinea corporis: Well defined annular active red patches with healing center &amp; <b>vesicular scaly</b> edge</li> </ul> | <ul style="list-style-type: none"> <li>○ Pityriasis versicolor: sharply demarcated macule , hyperpigmented or hypopigmented covered by <b>fine branny</b> scaling.</li> </ul>                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>○ Psoriasis: Primary lesion is a well-defined erythematous papule covered by :</li> <li>○ White Dry</li> <li>○ Shiny Silvery</li> <li>○ <b>Loosely attached</b></li> </ul>                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>○ Seborrheic scales:</li> <li>○ Yellowish</li> <li>○ Greasy</li> <li>○ Lusterless</li> <li>○ <b>Adherent</b></li> </ul>                            | <ul style="list-style-type: none"> <li>○ Lichen Planus (LP) papule with shiny surface and <b>adherent</b> scales.</li> </ul>                                                        | <ul style="list-style-type: none"> <li>○ Pityriasis Rosea : An intermediate zone with a <b>collarette</b> of scales and healing center</li> </ul>                                                                                                                                                                                                       |
| ○ Discoid lupus erythematosus: plaques covered with <b>adherent</b> scales                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                           |                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                         |
| Signs                                                                                                                                                                                                                                                                                                                                                                                                           | Phototherapy: PUVA & UVB                                                                                                                                                                  | Koebner's Phenomenon                                                                                                                                                                | Cicatricial Alopecia.                                                                                                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>○ <b>Auspitz sign:</b> , Psoriasis</li> <li>○ <b>Christmas tree</b>, jacket with short sleeves in Pityriasis Rosea</li> <li>○ <b>Scutula :</b> favus, Yellow cup-shaped sulfur crust of mousy odor</li> <li>○ <b>Stippling sign:</b> dilated pilosebaceous orifices in Discoid lupus erythematosus</li> <li>○ <b>Exclamation mark</b> hair in Alopecia Areata</li> </ul> | <ul style="list-style-type: none"> <li>○ <b>Psoriasis</b></li> <li>○ <b>Vitilgo</b></li> <li>○ <b>Alopecia Areata</b></li> <li>○ Pityriasis Rosea</li> <li>○ Atopic dermatitis</li> </ul> | <ul style="list-style-type: none"> <li>○ <b>Plane warts</b></li> <li>○ <b>Psoriasis</b></li> <li>○ <b>Lichen Planus</b></li> </ul>                                                  | <ul style="list-style-type: none"> <li>○ <b>Herpes Zoster</b></li> <li>○ <b>Kerion</b></li> <li>○ <b>Favus:</b></li> <li>○ <b>LP of scalp = Hypertrophic LP</b></li> <li>○ <b>DLE</b></li> </ul>                                                                                                                                                        |
| Wood's light                                                                                                                                                                                                                                                                                                                                                                                                    | Malassezia furur                                                                                                                                                                          | Benz                                                                                                                                                                                | Pigmentation lesion                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>○ <b>Erythrasma:</b> coral red fluorescence due to porphyrin</li> <li>○ <b>Tinea capitis :</b> microspore gives green fluorescence</li> <li>○ <b>Pityriasis Versicolor:</b> gives yellow fluorescence.</li> </ul>                                                                                                                                                        | <ul style="list-style-type: none"> <li>○ Pityriasis versicolor</li> <li>○ Seborrheic dermatitis</li> </ul>                                                                                | <ul style="list-style-type: none"> <li>○ Benzyl benzoate emulsion 25 % preparation in scabies</li> <li>○ Benzoyl peroxide 2.5 – 10% in acne</li> </ul>                              | <ul style="list-style-type: none"> <li>○ Post-scabetic nodules: reddish brown (hyperpigmented)</li> <li>○ Post lichen planus hyperPigmentation</li> <li>○ Pityriasis (Tinea) Versicolor</li> <li>○ Pityriasis Alba</li> <li>○ Post Inflammatory Hypopigmentation e.g. Tuberculoid Leprosy. Maculoanaethetic patch with hypopigmented Center.</li> </ul> |